

FEDERAL BUREAU OF INVESTIGATION (FBI) LABORATORY DIVISION
TERRORIST EXPLOSIVE DEVICE ANALYTICAL CENTER (TEDAC)

COUNTER-IMPROVISED THREAT
COLLABORATION CENTER (C³)

FISCAL YEAR (FY) 2021, ANNUAL REPORT
(OCTOBER 2020 - SEPTEMBER 2021)



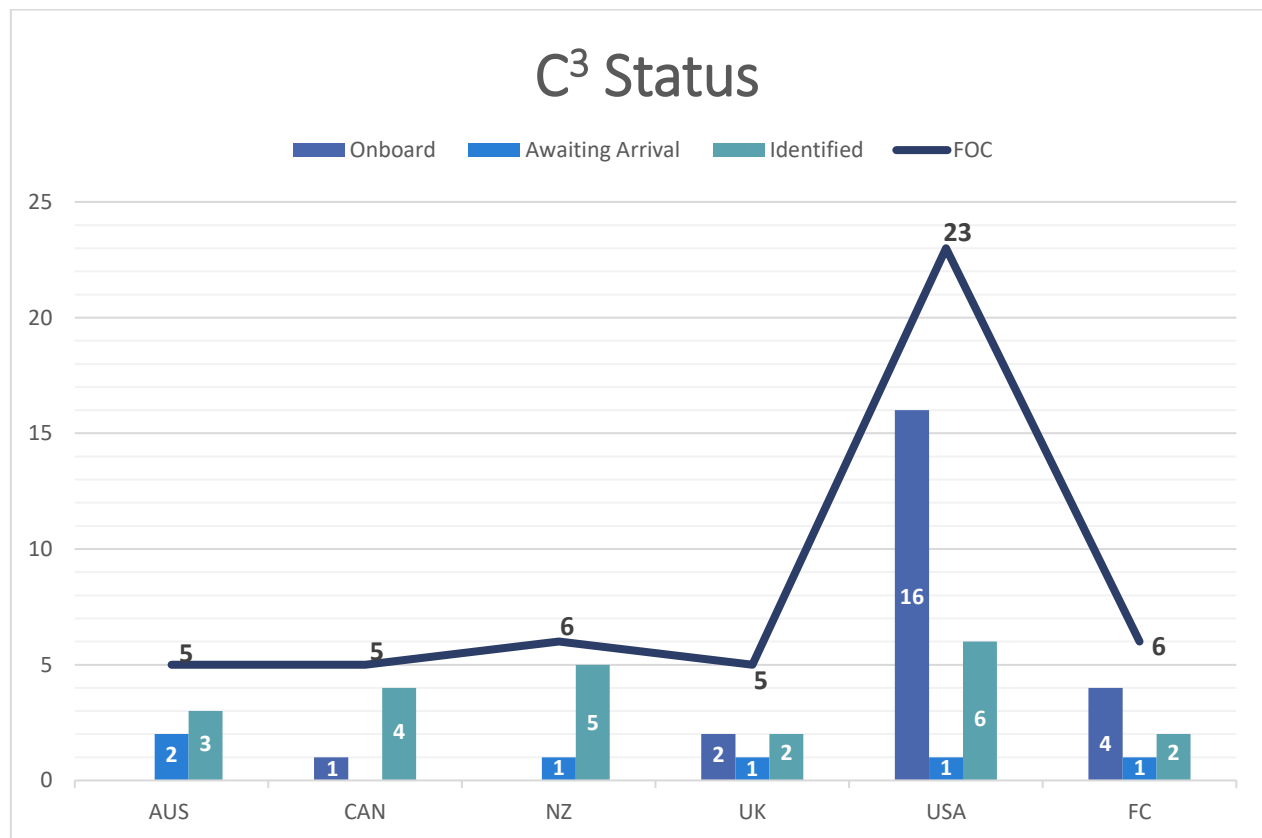
OCTOBER 15, 2021

Executive Summary

(U//FOUO/REL TO USA, FVEY) FY21, Annual Highlights

- Total of 24 personnel in the C³: 16 – United States Representatives, 3 - International Representatives, 4 - Facilitation Cell and 1 - Global Operations Unit (GOU), Unit Chief
- Conducted 62 engagement and outreach events
- Initiated 39 Requests for Information (RFI)/Requests for Support (RFS); completed 37 RFI/RFS and added hundreds of data points to the C³ Common Operating Picture (COP) as primary workflow outputs
- The C³ completed its first Five-Year Strategy with input from 36 FVEY organizations.
- Hosted two sessions of a C³ Five-Year Strategy Update meeting and disseminated a Five-Year Strategy Implementation Update report to the Community.
- Completed the installation of the Department of Defense (DoD) Non-Classified Internet Protocol Router (NIPR) and Secure Internet Protocol Router (SIPR).
- Completed the installation of the Department of Homeland Security (DHS) A-LAN system.

(U//FOUO) Partner Commitment Status



As of 30 September 2021

Partner Engagement and Outreach Events

During FY 21, the C³ conducted the following 62 meetings and briefings to engage partners. Due to ongoing COVID-19 travel restrictions our usual meetings and site visits were limited. However as conditions improve the center is facilitating more in-person meetings and site visits.

DATE	TYPE	COUNTRY	ORGANIZATION
1ST Quarter, FY21			
10/14/20	Meeting	US	C ³ Overview Brief for State Department Bureau of International Narcotics and Law Enforcement Affairs (INL)
10/15/20	Meeting	US	Navy Explosive Ordnance Disposal (EOD) Group 2/Mobile Unit 8 Platoon Pre-Deployment Briefing
10/22/20	Meeting	FVEY	FVEY Exploitation Working Group (WG) VTC
10/22/20-10/23/20	Site Visit	US	Federal Bureau of Investigation (FBI) Science and Technology Branch (STB) Executive Assistant Director (EAD) Site Visit
10/26/20	Meeting	FVEY	Kenya Special Agent Bomb Technician (SABT) Pre-Deployment Briefing
10/29/20	Site Visit	US	Defense Intelligence Agency (DIA) Site Visit
12/08/20	Meeting	US	Philippines Counter Terrorism Police Liaison Officer (CTPLO) Pre-Deployment Briefing
12/08/20	Site Visit	FVEY	Special Operations Command South, FBI Liaison Officer Site Visit
12/09/20	Site Visit	US	Bureau of Alcohol, Tobacco, Firearms and Explosives (ATF) National Center for Explosives Training and Research (NCETR) Director Site Visit
2ND Quarter, FY21			
01/08/21	Meeting	FVEY	TEDAC/C ³ and United Kingdom (UK) Metropolitan Police Service (MPS) SO15 Leadership Meeting
01/13/21	Meeting	FVEY	TEDAC/C ³ and Australian Defense Science and Technology Group/Australian Defense Force Leadership Meeting
01/19/21	Meeting	FVEY	C ³ Virtual Working Group
02/04/21	Meeting	FVEY	Counter-Unmanned Aerial System (C-UAS) Community Meeting
02/18/21	Meeting	FVEY	C ³ Information Access WG Kickoff Meeting

02/22/21	Meeting	FVEY	C ³ Process and Agreements WG Kickoff Meeting
02/23/21	Meeting	FVEY	C ³ Information Technology (IT) WG Kickoff Meeting
02/24/21	Meeting	FVEY	C ³ Coordination WG Kickoff Meeting
02/25/21	Meeting	FVEY	C ³ Information and Intelligence Sharing WG Kickoff Meeting
02/25/21	Meeting	FVEY	C ³ Overview Brief for TSA Red Team
03/03/21-03/04/21	Meeting	FVEY	Global Threat Integration Program (GTIP) WG Video Teleconference (VTC)
03/16/21-03/17/21	Site Visit	FVEY	MPS SO15 / New York Joint Terrorism Task Force Site Visit
03/24/21-03/25/21	Site Visit	FVEY	Australia and New Zealand Embassies Site Visit
03/25/21	Site Visit	FVEY	Federal Bureau of Investigation Criminal Justice Information Services Site Visit
3RD Quarter, FY21			
04/08/21	Meeting	FVEY	C ³ Overview Brief for the Naval Counter Improvised Threat Knowledge Network
04/12/21	Site Visit	FVEY	Defense Threat Reduction Agency (DTRA) Senior Enlisted Advisor Site Visit
04/20/21	Meeting	FVEY	Navy EOD Mobile Unit 3 Pre-Deployment Briefing
04/20/21	Meeting	FVEY	FVEY Counter Threat Steering Committee (FCSC) Threat Response WG (TRWG) VTC
04/21/21-04/22/21	Site Visit	FVEY	United States Army Central Command (ARCENT) Forensic Exploitation Laboratory Central Command (FLX-C) Commander Site Visit
04/26/21	Meeting	FVEY	Interagency Intelligence C-IED Exchange – Pacific (IICEPAC) WG VTC
04/27/21	Meeting	FVEY	FVEY Exploitation Collaboration Meeting (FECM) VTC
04/29/21	Meeting	FVEY	FECM VTC
05/04/21	Meeting	FVEY	FBI Legal Attaché Manila Pre-Deployment Briefing
05/04/21	Meeting	FVEY	FECM VTC
05/11/21	Site Visit	FVEY	U.S. Army Criminal Investigation Command (CID) Site Visit
05/11/21	Site Visit	FVEY	DHS U.S. Customs and Border Protection (CBP) New Orleans Port Director Site Visit
05/17/21-05/18/21	Site Visit	FVEY	Counterintelligence Tactical Analytical Cell (CiTAC) Site Visit

05/18/21	Meeting	FVEY	C ³ Brief for LEGAT/Assistant Legal Attaché (ALAT) Pre-Deployment
05/18/21	Site Visit	US	C ³ Brief for Collected Exploitable Material/Captured Enemy Material (CEM) Discussions Site Visit
05/25/21	Meeting	FVEY	FCSC TRWG VTC
05/26/21	Meeting	FVEY	C ³ Presents – UK MPS SO15 National Index for Terrorism Related Articles (NITRA)
06/03/21	Site Visit	FVEY	C ³ Overview Brief for Naval Criminal Investigative Service (NCIS)
06/07/21-06/08/21	Site Visit	FVEY	New Zealand Delegation Site Visit
06/21/21-06/25/21	Site Visit	FVEY	UK Ministry of Defence IT Site Visit
06/22/21	Site Visit	FVEY	C ³ Overview Brief for FBI International Operations Division Site Visit
06/22/21	Meeting	FVEY	FCSC TRWG VTC
06/24/21	Site Visit	FVEY	DHS National Targeting Center Site Visit
06/29/21	Meeting	FVEY	C ³ Five Year Strategy Community Update
06/30/21	Meeting	FVEY	C ³ Presents: TEDAC Regional Explosive Threats
4TH Quarter, FY21			
07/06/21	Site Visit	FVEY	National Counterterrorism Center Site Visit
07/20/21	Meeting	FVEY	FCSC TRWG VTC
07/23/21	Site Visit	FVEY	1st Security Force Assistance Brigade Site Visit
07/29/21	Meeting	FVEY	FVEY Exploitation WG VTC
08/04/21	Site Visit	FVEY	Expeditionary Exploitation Unit One (EXU-1) Site Visit
08/11/21-08/12/21	Site Visit	FVEY	DTRA Site Visit
08/17/21	Site Visit	FVEY	Australian Embassy Site Visit
08/17/21	Site Visit	FVEY	DHS CBP Mobile Port Director Site Visit
08/31/21	Meeting	FVEY	FCSC TRWG VTC
09/10/21	Site Visit	FVEY	UK Defence Intelligence Site Visit
09/15/21-09/17/21	Meeting	FVEY	GTIP WG VTC
09/20/21	Site Visit	FVEY	DTRA Site Visit
09/23/21	Site Visit	FVEY	ARCENT G36 Site Visit
09/28/21	Meeting	FVEY	FCSC TRWG VTC

C³ Presents

This FY, the C³ developed and initiated “C³ Presents.” The C³ Presents is a monthly forum providing virtual presentations to inform participants of ongoing efforts and high interest topics within partners’ mission sets. This venue provides an opportunity for enhancing collaboration across the FVEY whole-of-governments fight against improvised threats.

The C³ Presents offers an opportunity to provide awareness of FVEY counter-improvised threat efforts and illuminates connections for information sharing. Since inception, the C³ Presents has garnered approximately 75 attendees from over 30 FVEY organizations for each of the monthly presentations.



C³ Presents: UK SO15 NITRA Flyer

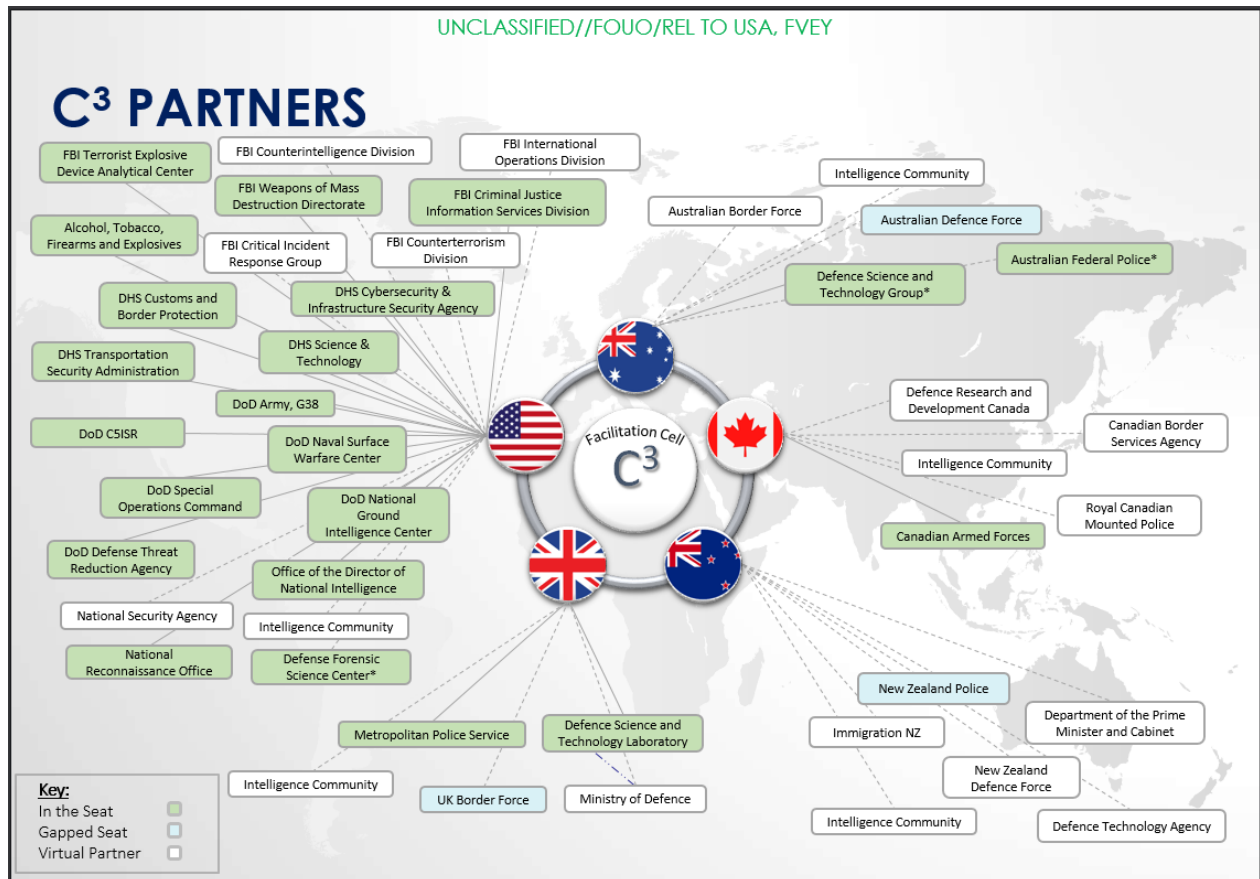
On-Site WG

The annual C³ On-Site WG scheduled for November 2021 was cancelled due to COVID-19 international travel restrictions. The C³ continues to host virtual C³ Strategy Working Group updates to the community on a regular basis.

Personnel and Organization

The C³ currently includes 19 Representatives, 4 Facilitation Cell (FC) members, and the GOU Unit Chief. This quarter, one of our Facilitation Cell members, Mr. Keith Armstrong, and our DTRA representative Mr. John Greaves both retired. We extend our appreciation to Keith and John for their dedication and commitment to fulfilling the C³ mission.

Full Operating Capability (FOC) is now the goal for the C³. A declaration date is not yet determined, but the following graphic indicates the projected organizational structure.



Infrastructure and Information Technology (IT)

Of the 25 systems and/or networks identified for installation in the C³ Sensitive Compartmented Information Facility (SCIF), thirteen are complete. The following network is currently in the installation phase:

DIA Stone Ghost: CLAS-TS system. COMSEC fill completed by FBI Security. PENDING FBI Electronics Technician Installation of the 10 terminals and one TS-VTC.

In FY 21, the C³ completed the installation of the Department of Defense (DoD) Non-Classified Internet Protocol Router (NIPR) and Secure Internet Protocol Router (SIPR) as well as the installation of the Department of Homeland Security (DHS) A-LAN system. The following table shows all systems installed to date and future proposed system installations.

IT Systems / Networks		
Country	Organization / System	Classification
Installation Complete		
US	FBI – UNET	Unclassified
US	FBI – FBINET	Secret
US	FBI – SCINET	Top Secret
US	ATF – JUTNET	Unclassified
US	CBP – CBP Unclassified	Unclassified
UK	DSTL – DON-B	Official Sensitive
UK	Home Office – NSN	Secret
UK	MPS – Aware	Official Sensitive
AU	AFP – AFPNET	Protected
NZ	NZ Police Network	Unclassified
US	DOD – NIPR	Unclassified
US	DOD – SIPR	Secret
UK	MODNet	Secret
US	DHS A-LAN	Unclassified
Installation In-Progress		
US	DIA – Stone Ghost	Top Secret
Identified Networks		
AU	ADF – Defence Protected Network	Up to Restricted
AU	ADF – DSN	Up to Secret
CA	Spartan	Top Secret
CA	DWAN	Unclassified
CA	CSNI	Secret
UK	MODNet	Official Sensitive
US	LABNet	Unclassified
US	JWICS	Top Secret
US	DHS B-LAN / HSDN	Secret
US	DHS C-LAN	Top Secret

C³ Weekly Schedule and Operational Tempo

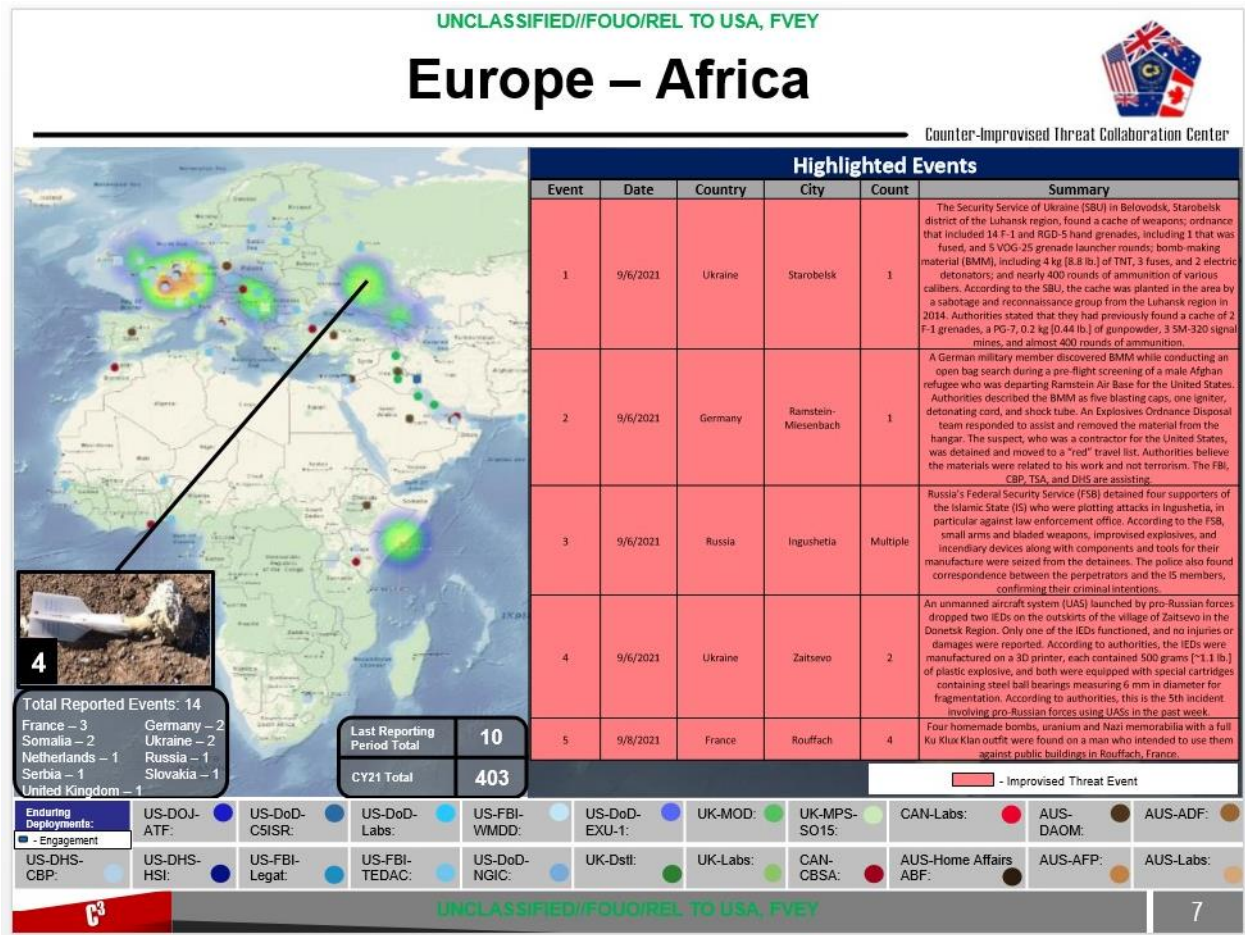
The weekly schedule below is in effect, driving daily operational tempo. Daily Stand-Ups keep the Representatives informed and keep the work flow on task and on time.

C³ WEEKLY SCHEDULE

01 JUL-30 SEP

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
0700 – 0900					
0930	Daily Stand-Up	Daily Stand-Up/ Internal Operations Meeting	Daily Stand-Up	Daily Stand-Up/ Global Outreach Meeting	Daily Stand-Up
1000					
1030	C ³ Weekly Brief				
1100					
1130					
1200					
1230					
1300					
1330					
1400					
1430					
1500					
1530					
1600					
1700					
<p>❖ Meeting times and topics are reviewed by C³ Representatives every three months.</p> <p>❖ The C³ Facilitation Cell is responsible for facilitating or coordinating all C³ meetings.</p> <p>Meeting Objective Summary</p> <ul style="list-style-type: none"> • Daily Stand-Up – Quick review of the Calendar, Visits, RFIs, and Representative's updates • C³ Weekly Brief – Report on critical event/deployment data and C3 operations to the TEDAC Deputy Director • C³ Global Outreach Meeting – Review of the COP (event and deployment data) and working group topics/projects. • C³ Internal Operations Meeting – Review of outstanding RFI and discuss internal business processes. 					

On September 1ST the C³ resumed briefing the Weekly Brief to the TEDAC Deputy Director, Mr. Kelly Brady. The Weekly Brief highlights Improvised Threat Events as well as Deployments and Engagements captured on the C³ COP. The brief captures reportable data for the C³ Community, a listing of all reports released by TEDAC, and highlighted partner shared documents for the current reporting period. The three graphics below depict examples of the format/information provided in the Weekly Brief.



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Weekly Exploitation Report



Counter-Improvised Threat Collaboration Center

(U) Products uploaded by TEDAC into the Explosive Reference Tool (EXPeRT): 2 – 8 September 2021

FBI#	SOURCE	SUBMITTER ID	DESCRIPTION
2021-00920	Kenya	TEDAC/KE/CN/21	Explosives Chemistry (U//FOUO)
2021-00580	Philippines	SOFEX/RP/1139085/20	Explosives Chemistry (U//FOUO)
080710626	Afghanistan	CEXC/AFG/129A/08	Latent Prints (U)
120213613	Afghanistan	CEXC/AFG/0269-BAF/12	Latent Prints (U)
2019-02166	Iraq	WEAT/IZ/S-FXL-C-19-0465/19	Latent Prints (U//FOUO)
2018-01763	Afghanistan	SOFEX/AF/1097154/18	Latent Prints (U//FOUO)
2019-00250	Afghanistan	WEAT/AF/BAF-18-0986/18	Latent Prints (U//FOUO)
2018-00546	Syria	WEAT/SY/BRN-17-0170/17	Technical Exploitation (U//FOUO)
2018-00546	Syria	WEAT/SY/BRN-17-0170/17	Technical Exploitation (U//FOUO)
2018-00546	Syria	WEAT/SY/BRN-17-0170/17	Technical Exploitation (U//FOUO)
2019-01354	Afghanistan	WEAT/AF/BAF-19-0234/19	Technical Exploitation (U//FOUO)
2019-01354	Afghanistan	WEAT/AF/BAF-19-0234/19	Technical Exploitation (U//FOUO)
2018-01073	Iraq	WEAT/IZ/BES-EXP-0131-17/17	Technical Exploitation (U//FOUO)
2018-01073	Iraq	WEAT/IZ/BES-EXP-0131-17/17	Technical Exploitation (U//FOUO)
2018-01883	Syria	WEAT/SY/NEL-18-SYR-0028/18	Technical Exploitation (U//FOUO)
2018-01883	Syria	WEAT/SY/NEL-18-SYR-0028/18	Technical Exploitation (U//FOUO)
2019-01125	Afghanistan	WEAT/AF/BAF-19-0152/19	Technical Exploitation (U//FOUO)
2019-01125	Afghanistan	WEAT/AF/BAF-19-0152/19	Technical Exploitation (U//FOUO)
2018-00665	Saudi Arabia	TEDAC/SA/AW/17	Technical Exploitation (U//FOUO)
2019-00253	Afghanistan	WEAT/AF/BAF-18-1037/18	Firearms/Toolmarks (U//FOUO)

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FVEY Partner Shared Documents



Counter-Improvised Threat Collaboration Center

(U) Improvised Threat-Related Products Shared by the C³ Community: 2 – 8 September 2021

COUNTRY/ORGANIZATION	DOCUMENT DATE	DOCUMENT TITLE	DESCRIPTION
US, ATF	7/10/2021	PSBS and EOD Report: IED and Ordnance	CONUS IED and ordnance incident information (Recurring Product)
US, FBI/DHS CISA	9/7/2021	NETF Weekly Report 28 August – 3 September 2021	Weekly highlight of domestic IED events (Recurring Product)
US, DHS CISA	9/7/2021	Ukraine: Pro-Russian Separatists Drop 3D-Printed Munitions	Photos and twitter feeds from the Ukraine incident involving 3D-printed munitions dropped from UAS
UK, Royal Armouries	9/7/2021	Current Awareness Bulletin	Monthly National Firearms Centre report detailing types of firearms (Recurring Product)
US, NCTC	9/8/2021	2 – 8 September 2021 Counterterrorism Digest	Weekly compilation of open-source articles on global CT activities and items of interest (Recurring Product)
C ³	9/8/2021	C ³ RFI 2021-029: Germany Explosive Device Viability	C ³ consolidated response to a request for information regarding explosives found at Ramstein Air Base in Germany

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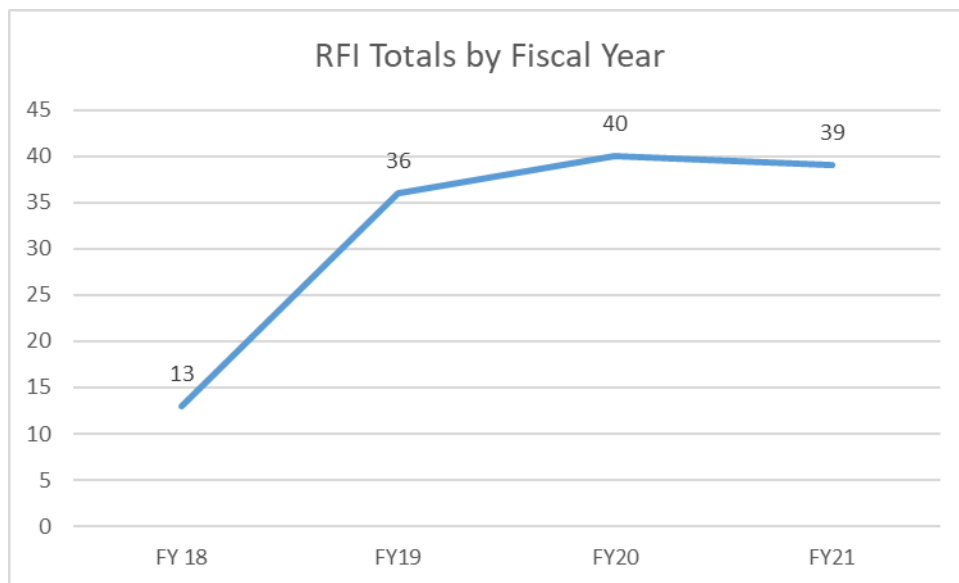
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Services

RFI/RFS:

One of the C³'s key outputs is response to Requests for Information/Support (RFI/RFS). This FY the C³ initiated 39 RFIs, and completed/disseminated 37 RFIs (2 RFIs are currently in progress) through the Foreign Disclosure Request (FDR) process. A comparison of completed RFI totals from the last four fiscal years can be found in the chart below:



Final products are disseminated to the greater counter-improvised threat community. FY21 RFI/RFS include:

RFI Title	Requestor
1. UMS Exploitation Data for the COP	C ³
2. Engagement and Outreach Data Collection	C ³
3. Explosively Formed Projectiles (EFPs)	TEDAC
4. 3D Printed Firearms	DHS TSA
5. 2018 Iranian Bomb Plot	ODNI NCTC
6. Intelligence Points of Contact	C ³ Intelligence Cell
7. Engagement and Outreach Data Collection for the COP	C ³
8. Collected Exploitable Material/Battlefield Evidence	UK MPS SO15
9. Improvised Threat Requirements and Priorities	C ³ Information and Intelligence Sharing Working Group
10. Improvised Threat Databases	DTRA
11. Most Commonly Used Main Charges	United States Special Operations Command (USSOCOM)

12. Explosive Ordnance Disposal Remotely Piloted Vehicle	Australian Defence Force
13. Mozambique Improvised Threat Assessment	C ³
14. Canadian Bomb Data Center	Canadian Armed Forces (CAF)
15. Magnetically-attached Improvised Explosive Devices	C ³
16. Directed Energy	C ³
17. Electronics Exploitation	CAF
18. Non-Conventional Threats	FCSC Exploitation WG
19. Prosecutorial Jurisdiction	C ³
20. Myanmar IED Events	Australian DIO
21. Software Defined Radio	UK DSTL
22. UAS Swarms by Non-State Actors	C ³
23. COP Engagement and Outreach Data	C ³
24. East Africa and IED Trends and TTPs	DTRA
25. UAS Hazards/RSPs/Recovery Procedures	Australian DIO
26. New IEDs	U.S. Department of State
27. Afghanistan Explosive Detection and Forensics Equipment	ODNI-NCTC
28. 26 August Kabul Attacks	Australia Attorney-General's Department
29. Germany Explosive Device Viability	DHS CBP
30. Vibration Sensors	C ³
31. QAnon Movement	UK MPS SO15
32. Interpol CBRNE	INTERPOL
33. Cyber Threats to Maritime Transportation	ODNI-NCTC
34. Covert Trace Explosive Recovery Kits	UK MPS SO15
35. Emerging UAS Capabilities	ODNI-NCTC
36. U.S. Coalition Convoy Attacks	C ³
37. Philippine M-76 Rifle Grenades	Australian Defence Intelligence Organisation (DIO)
38. Joint Terrorism Analysis Centre (JTAC) Explosive Incidents	UK MPS SO15
39. Improvised Airsoft Grenades	National Center for Explosive Training and Research (NCETR)

Pre-Deployment Briefings:

Upon request, the C³ provides tailored Pre-Deployment Briefings, virtually and in-person for FBI Special Agent Bomb Technicians (SABTs), Legal Attachés, and our partner organizations' deploying personnel. In FY 21, the C³ developed 12 Pre-Deployments Briefings, which were briefed to approximately 45 people representing 18 different FVEY organizations. These briefings are also

disseminated out to thousands of C³ Partners across the FVEY community. The following Pre-Deployment Briefings were created in FY 21:

Title	Date
C ³ Afghanistan Army National Guard Pre-Deployment Briefing	10/27/2020
C ³ Philippines CTPLO Pre-Deployment Briefing	12/08/2020
C ³ Pakistan SABT Pre-Deployment Briefing	02/10/2021
C ³ Syria Pre-Deployment Briefing	03/31/2021
C ³ Iraq Pre-Deployment Briefing	03/31/2021
C ³ Yemen Pre-Deployment Briefing	04/20/2021
C ³ Philippines Pre-Deployment Briefing	04/20/2021
C ³ Mali Pre-Deployment Briefing	05/19/2021
C ³ Vietnam & Singapore Pre-Deployment Briefing	07/28/2021
Operation Gallant Phoenix Africa Briefing	08/04/2021
C ³ Italy Pre-Deployment Briefing	08/05/2021
C ³ Sahel Pre-Deployment Briefing	09/21/2021

Topic of Interest:

In FY 21, the C³ initiated its Topic of Interest products. These topics are identified by C³ Representatives, as they may be of interest to the broader FVEY community. This FY's Topic of Interest products include:

Title	Date
COP Data on U.S. Coalition Convoy Attacks in Iraq Illustrates Major Increase in Events	04/08/2021
Is the use of vibration sensors in Somalia a new tactic, technique, procedure?	04/09/2021
Magnetically Attached Improvised Explosive Device Events in Kabul Province, Afghanistan	06/30/2021
Improvised Use of a Directed Energy Weapon	08/03/2021

Common Operating Picture:

The C³ in near real time, populates the COP to provide the community and its leadership a global view of improvised threat events, engagement and outreach efforts, exploitation laboratory locations, personnel deployments, and law enforcement and border protection locations to facilitate international coordination and the capture of critical events focused on IEDs and other improvised threats. In FY 21, the C³ added over 7,000 events to the COP.

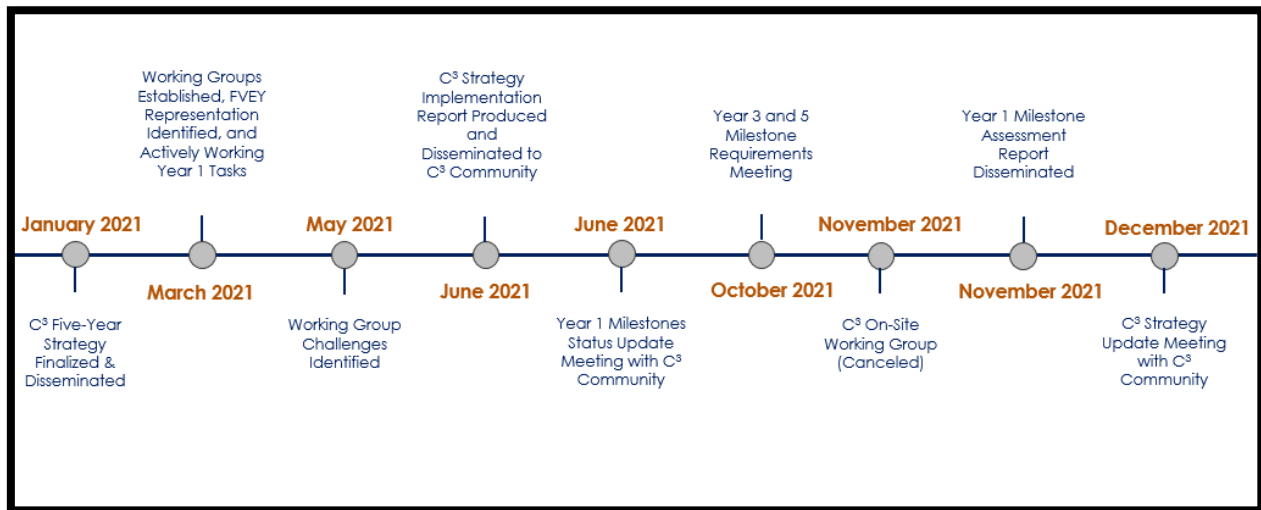
The COP is located on TEDAC's Explosive Reference Tool (EXPeRT). A COP Standard Operating Procedure is available upon request, along with a series of COP Quick Reference Guides to assist users. The COP provides the following unique capabilities:



To request an account to access TEDAC's EXPeRT and the COP please contact the Non-Enterprise Information Technology (NEIT) at <https://tedac.fbi.sgov.gov/expert2>.

C³ Five Year Strategy

During FY21, the C³ completed its first Five-Year Strategy with input from 36 FVEY organizations. Five Working Groups (WGs) (Coordination, Information and Intelligence Sharing, Information Access, Process and Agreements, and Information Technology) were established, with an average of 35 members in each, to action the Tasks and Key Milestones identified in the Strategy document. In an effort to keep the C³ Community involved and informed of the progress made toward the Year 1 Key Milestones, the C³ hosted two sessions of a C³ Five-Year Strategy Update Meeting and disseminated a Five-Year Strategy Implementation Update report to the Community. As the C³ progresses through Year 1 of the Five-Year Strategy, discussions are being initiated within the five WGs to establish requirements for Year 3 and 5 Key Milestones. Once these requirements are defined, they will be incorporated into the Year 1 Milestone Assessment Report and briefed to the C³ Community at the Year in Review Meeting. The Year 1 Strategy Timeline can be found in the image below.



Challenges

This year, the COVID-19 pandemic significantly impacted operations. As of 23 August 2021 the center resumed normal operations and is currently operating at 100% in office status, but is still struggling with travel and engagements due to COVID mandates.

Please Direct Questions to:

C³ Facilitation Cell
C3_Facilitation_Cell@fbi.gov
 (256) 213-2067